

CLAIMS

1. Control device for emergency opening of an aircraft door comprising :

- at least one triggering mechanism (10) for emergency opening,

5       - at least one door actuator (8), and

- means (14, 15, 16) of power supply to the actuator (8) responding to the triggering mechanism,

such that it also comprises means (18, 80, 81, 82) for modification of the power delivered by the means of power supply to the actuator (8), to control a slower opening of the door in an initial phase of opening and more rapid opening in at least one subsequent opening phase.

15       2. Device according to claim 1, in which the means for modification of the power delivered to the actuator comprise a time delay sequencer (18) for delivering a first power to the actuator during the initial phase and a second power greater than the first power in the subsequent phase.

20       3. Device according to claim 1, in which the means of power supply are pneumatic.

25       4. Device according to claim 3, in which the means of power supply comprise a first and second sources of pressurized gas, the first source of pressurized gas (14) being at a lower pressure than the second source of pressurized gas (16), and the means for modification of the power delivered to the actuator comprising a

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distributor (82) to successively link the actuator to the first then the second source of pressurized gas.

5        5. Device according to claim 3, in which the means of power supply comprise a single source (15) of pressurized gas and in which the means for modification of the power delivered to the actuator comprises a gas flux dosage valve (82) between the source of pressurized gas and the actuator.

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6. Device according to claim 5, in which said valve (82) comprises a passage outlet (0) for the pressurized gas and a valve (81) capable of blocking the passage outlet to a greater or lesser degree.

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7. Device according to claim 2, in which the time delay sequencer comprises a trigger spring (66) capable of being released by the triggering mechanism (10) and linked to the means for modification of the power delivered to the actuator, the trigger spring being coupled to a shock absorber (60, 62, 64, 65).

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8. Aircraft emergency evacuation device comprising :

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- an aircraft exit door (2),
- at least one item of passenger evacuation equipment (4) capable of being deployed close to the door, and

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- a control device for emergency opening of the door,

such that the emergency opening control device

conforms to any of the preceding claims.

9. Evacuation device according to claim 8, in which an emergency opening triggering mechanism (10) is coupled to means of deployment of the passenger evacuation equipment.

10. Evacuation device according to claim 9, in which the evacuation equipment (4) is stowed in the door and capable of being connected to the door threshold.

11. Method for automatic emergency opening of an aircraft door (2), in which the door (2) receives a first actuation in an initial phase of opening of the door and a second actuation, greater than the first actuation, in a subsequent phase of opening of the door.

12. Method according to claim 11, in which the initial phase of opening of the door is of a duration greater than or equal to the duration of the deployment of an item of evacuation equipment (4).